

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A projection system having comprising:
____ a projection display-(20);
____ at least one light source-(10); and
____ a sensor means for sensing and compensating for changes in the luminous flux emitted by the at least one light source-(10), wherein light emitted from the at least one light source comprises a first and a second spatial component which impinge on an entering face of an optical component of the projection system and a third spatial component which is directed into a region immediately surrounding the entering face, and wherein the sensor which means has comprises at least one sensor arrangement (30; 31, 32; 33, 34) for sensing components (M) the third spatial component of the light from the light source-(10) that are is directed into [[a]] the region immediately surrounding [[an]] the entering face of [[an]] the optical component-(11) of the projection system.
2. (Currently Amended) A projection system as claimed in claim 1, wherein further comprising a driver means (20a) for driving the projection display-(20) can be, wherein the driver means is controlled by the sensor arrangement (30; 31, 32; 33, 34) to compensate for fluctuations in the luminous flux.
3. (Currently Amended) A projection system as claimed in claim 1, wherein further comprising a power supply unit (10e) of the at least one light source-(10) can be, wherein the power supply unit is controlled by the sensor arrangement (30; 31, 32; 33, 34) to compensate for the fluctuations in the luminous flux.

4. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement is formed by comprises a plurality of sensors (30) that are arranged proximate the entering face and along the circumference of the optical component (11) and wherein the plurality of sensors are directed at the light source (10).

5. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement is formed by comprises an optical waveguide structure (31), proximate to and surrounding the entering face of the optical component (11), to couple in incident light corresponding to the third spatial component of light from the light source (10), and at least one sensor (32) to sense the third spatial component of light that is coupled in.

6. (Currently Amended) A projection system as claimed in claim 1, wherein the sensor arrangement is formed by comprises a surface (33), proximate to and surrounding the entering face of the optical component (11), to scatter incident light corresponding to the third spatial component of light coming from the light source (10), and a sensor (34) to sense the third spatial component of light that is scattered.

7. (Currently Amended) A projection system as claimed in claim 6, wherein further the sensor (34) is arranged substantially next to the light source (10) in a direction perpendicular to the direction of propagation of the light produced by the light source (10).

8. (Currently Amended) A projection system as claimed in claim 1, wherein the optical component is comprises a rod integrator (11) for homogenizing the first and second spatial components of light produced by the light source (10) which impinge on the entering face of the optical component.

9. (Currently Amended) A projection system as claimed in claim 1, having further comprising a color display for sequential color representation and, as a light source (10), at least one high-pressure gas-discharge lamp operated by alternating current.